

**A DATA CARRIER FOR THE SECURE TRANSMISSION OF
INFORMATION
AND METHOD THEREOF**

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Abstract of the Disclosure

A data carrier (100) is described for use with a reader for the secure transmission of information. The data carrier (100) comprises an identification number associated with the data carrier (100) and a memory for storing a one-time pad and data. The one-time pad is uniquely associated with the identification number. The data carrier (100) further comprises an encryption circuit for encrypting the data with the one-time pad, and a controller to prevent reuse of bits in the one-time pad. The reader comprises a generator to generate the one-time pad via one of the following: a look-up table, and a pseudorandom number generator operating on a secret key and the identification number of the data carrier.